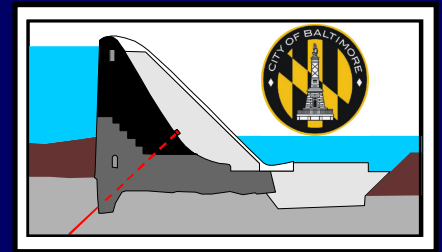


# The City of Baltimore

## Loch Raven Dam Rehabilitation

### Project Update: December, 2002



The Loch Raven Dam Rehabilitation contract was awarded to the Joint Venture of ASI/Cianbro in the summer of 2002. ASI is a dam construction specialist, and Cianbro is a large general contractor in the eastern United States. The joint venture mobilized and began work in the fall of 2002.

### ***The Galleries***

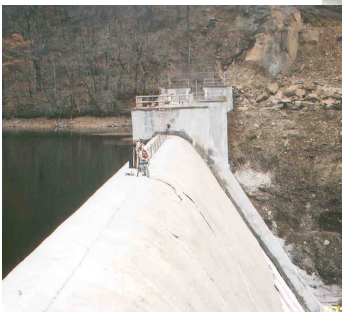


Loch Raven Dam has two galleries - one in the original 1912 structure, and one in the 1922 addition. These galleries are tunnels that span the length of the dam, and allow internal inspection of the structure. The inside of the upper gallery is shown.

During the rehabilitation, these galleries are being cleaned and new lighting will be installed to facilitate regular inspection of the dam interior.

### ***Bulkhead Installation***

A Bulkhead is currently under construction on the east half of the dam. This temporary structure will serve to protect the active work area in the event of low flows over the spillway.



### **Completed Work**

- Contractor has mobilized and set up trailers
- Contractor has installed detour and traffic management signs

### **Ongoing Work**

- Existing cement facing is being removed
- Site is being prepared for rock anchor installation

### **Upcoming Work**

- Rock anchor installation
- Excavation to expose the dam's foundation

### ***Shotcrete Removal***

In the 1970's, Loch Raven Dam underwent a series of maintenance upgrades. Included was the application of a Shotcrete coating. This material sealed the face of the spillway and abutments, and provided a protective surface to prevent deterioration of the original structure.

This 3- to 6-inch layer is now being removed to allow placement of the roller compacted concrete directly to the original dam surface.



### ***Road and Watershed Use***

The City has posted various informational signs for detour and watershed use provisions along the routes to and from the project site. Traffic and recreational activity management will be in place as-is throughout this project.

During the period between December 2 - 13, roughly 50 truck-trips per day were made to and from the site, as material was brought in to support the rock anchor installation. The traffic management plan was adhered to, and Baltimore County Police reported no incidents.